

Roland®

GUITAR AMPLIFIER

Blues Cube

BC-30



BC-30/210

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Owner's Manual



Before using this unit, carefully read the sections entitled: "IMPORTANT SAFETY INSTRUCTIONS" (p.2), "USING THE UNIT SAFETY" (p.3) and "IMPORTANT NOTES" (p.7). These sections provide important information concerning the proper operation of the unit. Additionally, the manual should be saved and kept on hand as a convenient reference.

 CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN	
ATTENTION: RISQUE DE CHOC ELECTRIQUE NE PAS OUVRIR	
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.	



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

INSTRUCTIONS PERTAINING TO A RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS.

IMPORTANT SAFETY INSTRUCTIONS

SAVE THESE INSTRUCTIONS

WARNING - When using electric products, basic precautions should always be followed, including the following:

1. Read all the instructions before using the product.
2. Do not use this product near water — for example, near a bathtub, washbowl, kitchen sink, in a wet basement, or near a swimming pool, or the like.
3. This product should be used only with a cart or stand that is recommended by the manufacturer.
4. This product, either alone or in combination with an amplifier and headphones or speakers, may be capable of producing sound levels that could cause permanent hearing loss. Do not operate for a long period of time at a high volume level or at a level that is uncomfortable. If you experience any hearing loss or ringing in the ears, you should consult an audiologist.
5. The product should be located so that its location or position does not interfere with its proper ventilation.
6. The product should be located away from heat sources such as radiators, heat registers, or other products that produce heat.
7. The product should be connected to a power supply only of the type described in the operating instructions or as marked on the product.
8. The power-supply cord of the product should be unplugged from the outlet when left unused for a long period of time.
9. Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
10. The product should be serviced by qualified service personnel when:
 - A. The power-supply cord or the plug has been damaged; or
 - B. Objects have fallen, or liquid has been spilled onto the product; or
 - C. The product has been exposed to rain; or
 - D. The product does not appear to operate normally or exhibits a marked change in performance; or
 - E. The product has been dropped, or the enclosure damaged.
11. Do not attempt to service the product beyond that described in the user-maintenance instructions. All other servicing should be referred to qualified service personnel.

GROUNDING INSTRUCTIONS

For the USA

This product must be grounded. If it should malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock.

This product is equipped with a cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.


DANGER: Improper connection of the equipment-grounding conductor can result in a risk of electric shock. Check with a qualified electrician or serviceman if you are in doubt as to whether the product is properly grounded. Do not modify the plug provided with the product — if it will not fit the outlet, have a proper outlet installed by a qualified electrician.

For the U.K.

WARNING: THE APPARATUS MUST BE EARTHED

IMPORTANT: THE WIRES IN THIS MAINS LEAD ARE COLOURED IN ACCORDANCE WITH THE FOLLOWING CODE.
 GREEN-AND-YELLOW: EARTH, BLUE: NEUTRAL, BROWN: LIVE

As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows:

The wire which is coloured GREEN-AND-YELLOW must be connected to the terminal in the plug which is marked by the letter E or by the safety earth symbol  or coloured GREEN or GREEN-AND-YELLOW.

The wire which is coloured BLUE must be connected to the terminal which is marked with the letter N or coloured BLACK.

The wire which is coloured BROWN must be connected to the terminal which is marked with the letter L or coloured RED.

The product which is equipped with a THREE WIRE GROUNDING TYPE LINE PLUG must be grounded.



This product complies with the requirements of European Directive 89/336/EEC.

For Europe




USING THE UNIT SAFELY

INSTRUCTIONS FOR THE PREVENTION OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS

About ⚠ WARNING and ⚠ CAUTION Notices









⚠ WARNING	Used for instructions intended to alert the user to the risk of death or severe injury should the unit be used improperly.
⚠ CAUTION	Used for instructions intended to alert the user to the risk of injury or material damage should the unit be used improperly. * Material damage refers to damage or other adverse effects caused with respect to the home and all its furnishings, as well to domestic animals or pets.

About the Symbols









	The ⚠ symbol alerts the user to important instructions or warnings. The specific meaning of the symbol is determined by the design contained within the triangle. In the case of the symbol at left, it is used for general cautions, warnings, or alerts to danger.
	The ⚡ symbol alerts the user to items that must never be carried out (are forbidden). The specific thing that must not be done is indicated by the design contained within the circle. In the case of the symbol at left, it means that the unit must never be disassembled.
	The ● symbol alerts the user to things that must be carried out. The specific thing that must be done is indicated by the design contained within the circle. In the case of the symbol at left, it means that the power-cord plug must be unplugged from the outlet.

ALWAYS OBSERVE THE FOLLOWING

⚠ WARNING

- Before using this unit, make sure to read the instructions below, and the Owner's Manual. 
- Do not open or perform any internal modifications on the unit. 
- Make sure you always have the unit placed so it is level and sure to remain stable. Never place it on stands that could wobble, or on inclined surfaces. 
- Avoid damaging the power cord. Do not bend it excessively, step on it, place heavy objects on it, etc. A damaged cord can easily become a shock or fire hazard. Never use a power cord after it has been damaged. 
- In households with small children, an adult should provide supervision until the child is capable of following all the rules essential for the safe operation of the unit. 
- Protect the unit from strong impact. (Do not drop it!) 
- Do not force the unit's power-supply cord to share an outlet with an unreasonable number of other devices. Be especially careful when using extension cords—the total power used by all devices you have connected to the extension cord's outlet must never exceed the power rating (watts/amperes) for the extension cord. Excessive loads can cause the insulation on the cord to heat up and eventually melt through. 
- Before using the unit in a foreign country, consult with your dealer, or qualified Roland service personnel. 

⚠ CAUTION

- Always grasp only the plug on the power-supply cord when plugging into, or unplugging from an outlet. 
- Try to prevent cords and cables from becoming entangled. Also, all cords and cables should be placed so they are out of the reach of children. 
- Never climb on top of, nor place heavy objects on the unit. 
- Never handle the power cord or its plug with wet hands when plugging into, or unplugging from, an outlet. 
- Before moving the unit, disconnect the power plug from the outlet, and pull out all cords from external devices. 
- Before cleaning the unit, turn off the power and unplug the power cord from the outlet (p. 7). 
- Whenever you suspect the possibility of lightning in your area, pull the plug on the power cord out of the outlet. 
- The unit is very heavy, so care should be taken not to drop it on your feet when moving it. 

ALL MANUALS ARE NOT THE SAME

Congratulations!

You've made the right choice.

The Blues Cube is the happy result of using Roland's technological expertise to obtain the best possible sound from your electric guitar.

But to get the most out of your Blues Cube, you should go through this manual.

You don't need to keep most amp manuals. But this one will explain important stuff about what makes a great sounding amp and how to get that killer tone.

OUR DESIGN PHILOSOPHY

An electric guitar doesn't come alive until it's plugged in. Your amp can actually be considered part of the instrument.

In fact, it's almost like the body of a great acoustic, contributing greatly to the final sound. Even a vintage guitar can't give you all it's got if you use a mediocre amp.

We wanted to produce an amp that would simply sound great, so we went back to amplifier basics to rediscover exactly what great guitar sound is and what a great guitar amp is all about.

We analyzed vintage amps from the 50's and 60's, from tweeds to blondes (white P.V.C. covered beauties) to blackface panels as well as a slew of bluesbreaking British amps, all of them highly desirable.

Results conclusively showed that a great amp not only has distinctive warm tones but must also be super-responsive to sound and distortion variations according to a player's picking dynamics and/or guitar volume control.

Many people were involved in our research. Studio pros, vintage amp collectors, semipro and general electric guitar enthusiasts all were part of our listening panels.

Then our engineers and amp designers used leading-edge analog technology to get all the best qualities we were hearing from these amps into the Blues Cube, spurring a new development like the *Tube Logic Technology* (*).

The Blues Cube brings out every aspect of your guitar.

* *Tube Logic Technology*

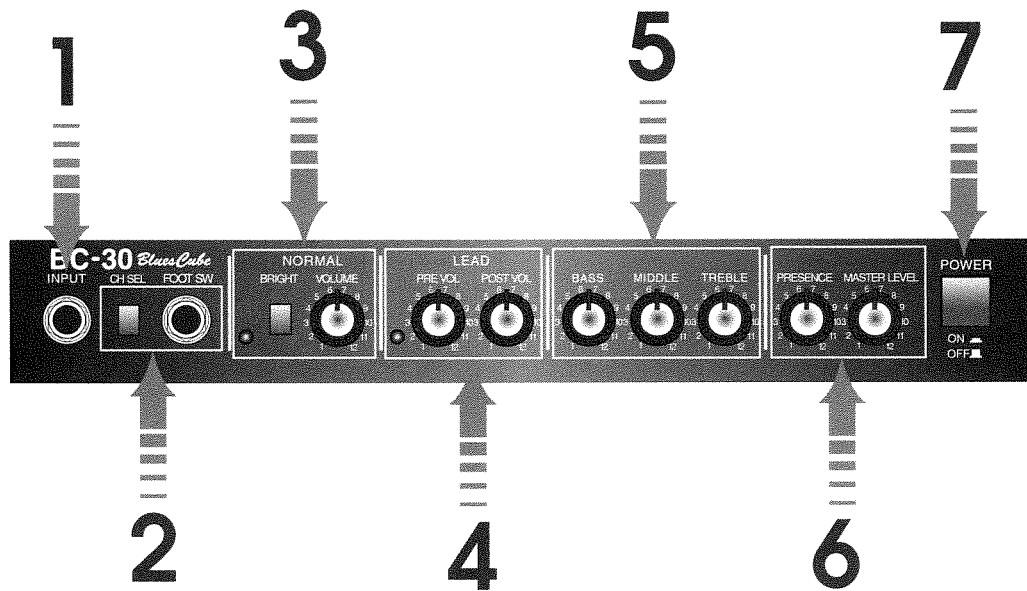
Tube Logic Technology reproduces the sound of various well-known vintage amps, based on scientific analysis and repeated hearing sessions. Not only the typical tube amp characteristics such as warm tones and a creamy overdriven sound, but also practical factors that make it possible to recreate other tube-like characteristics such as playing feel. These "feel factors" were logically analyzed and found to include, for instance, that an 8 Ω speaker's impedance fluctuates according to the volume and voice range, affecting the frequency response of a tube's power amp stage as well as a pre-amp stage having high-impedance signal path and nonlinear amplitude curve.

Tube Logic technology can faithfully emulate such characteristics that are important in producing good guitar sounds, but previously didn't have much attention paid to them.

FEATURES

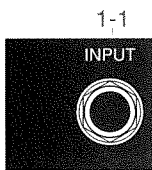
- ✓ Two-channel configuration—NORMAL channel and LEAD channel, each with a dedicated circuit for independent sound characteristics. Switching channels can also be accomplished using an optional footswitch.
- ✓ The NORMAL channel delivers clean sound designed for traditional jazz or country or a warm, crunch sound optimized for blues and rock.
- ✓ Adding to a three-band tone control, the LEAD channel features two volume knobs (PRE VOL and POST VOL) for screaming high gain that is well-suited for rock blues and metal.
- ✓ The active PRESENCE knob only available on high-end units, works on the signal within the power section, adding lustrous highs to the sound even at maximum distortion.
- ✓ The built-in heavy-duty speakers (BC-30; 12" X 1, BC-30/210; 10" X 2) are a direct result of intensive research into famous guitar amp speaker units, such as the "Blue" and British "Greenback" speakers. And with the power amplifier section going into soft clipping, the speaker will deliver an SPL much higher than its rated 30W R.M.S.

NAMES OF THINGS AND WHAT THEY DO



■ BC-30, BC-30/210 Control Panel

1. Input



An ultra Hi-Z INPUT jack (1-1) makes sure the vintage single coil pickup sound is at its best.

2. Channel Select

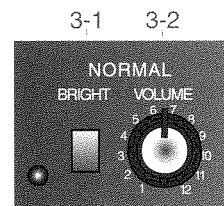


Switch between the NORMAL channel and LEAD channel with the CH SELECT switch (2-1). The channel selected is indicated by green for NORMAL and red for LEAD. Connecting an optional footswitch to the CH SELECT FOOT SW jack (2-2) lets you switch instantly. The optional BOSS FS-5L has an indicator to let you visually confirm it on the footswitch.

** If a footswitch is used, the front panel CH SELECT switch will not operate.*

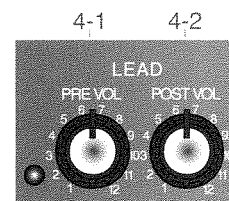
** Switching channels can cause a slight noise.*

3. Normal Channel



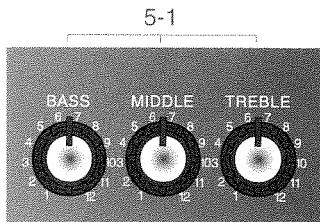
The Normal Channel lets you create sounds from clean, distortion-free type to slight overdrive. Use the channel VOLUME (3-2) to set your level. Using the BRIGHT switch (3-1) provided the brilliant highs of vintage tweeds and blackface panel amps.

4. Lead Channel



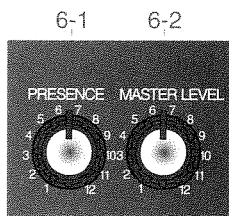
The PRE VOL knob (4-1) has a wide enough range to produce crunch to hard distortion. Since it provides ample sustain and feedback, you won't need over-the-top distortion even if you're after a heavy metal sound. With hard distortion you still get superior picking response that enhances your playing. At low guitar volume settings the sound stays natural. The POST VOL knob (4-2) can be used to balance the different volume levels of the NORMAL and LEAD channels.

5. Three Band Tone Control



The Blues Cube's three-band tone control circuit (5-1) is a passive design delivering natural guitar sound. Repeated listening tests showed that our passive circuit was comparable to an active equalizer and allowed for a wider array of sounds.

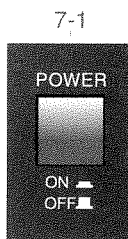
6. Master Control



The active PRESENCE (6-1) control works on the power amp stage to produce effects that are different from tone controls or equalizers. This adds brilliant highs to the sound, even with hard distortion.

MASTER LEVEL (6-2) controls the total sound level of the Blues Cube.

7. Power Switch



The POWER switch (7-1) switches the unit on or off.

* Once the connections have been completed, turn on power to your various devices in the order specified. By turning on devices in the wrong order, you risk causing malfunction and/or damage to speakers and other devices.

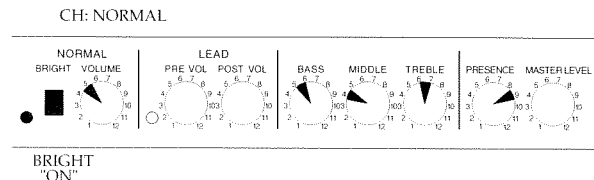
* This unit is equipped with a protection circuit. A brief interval (a few seconds) after power up is required before the unit will operate normally.

Experience a new world of guitar sound!

TONE SETTINGS

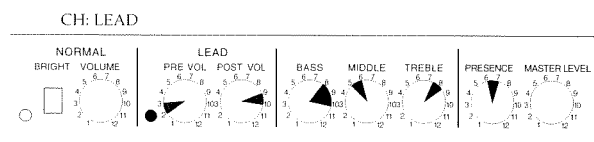
A. COUNTRY

BRIGHT switch and PRESENCE control add extra presence to clean guitar sound.



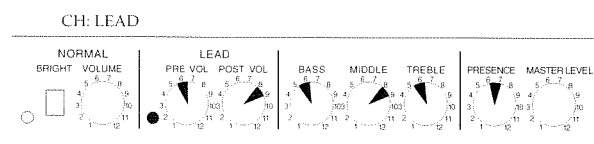
B. TRADITIONAL BLUES

Crunchy light distortion sound similar to typical overdriven tube amp tone.



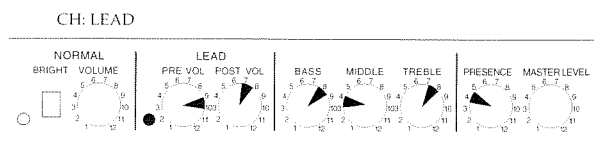
C. ROCK BLUES

Straight rock guitar sound often used by late 60's and 70's blues-based rock guitarists.



D. HARD ROCK

Big stack amp-like sound with a lot of bottom emulated by cutting the mid range tone control.



IMPORTANT NOTES

In addition to the items listed under "IMPORTANT SAFETY INSTRUCTIONS" and "USING THE UNIT SAFELY" on pages 2 and 3, please read and observe the following:

Power Supply

- Do not use this unit on the same power circuit with any device that will generate line noise (such as an electric motor or variable lighting system).
- Before connecting this unit to other devices, turn off the power to all units. This will help prevent malfunctions and/or damage to speakers or other devices.
- When connections are complete, turn on the other devices, then turn this unit on last in order to prevent the malfunction and/or damage to speakers.

Placement

- Using the unit near power amplifiers (or other equipment containing large power transformers) may induce hum. To alleviate the problem, change the orientation of this unit; or move it farther away from the source of interference.
- This device may interfere with radio and television reception. Do not use this device in the vicinity of such receivers.

Maintenance

- Wipe the unit with a soft, dry cloth or one that has been slightly dampened with water. To remove stubborn dirt, use

a mild, non-abrasive detergent. Afterwards, be sure to wipe the unit thoroughly with a soft, dry cloth.

- Never use benzene, thinners, alcohol or solvents of any kind, to avoid the possibility of discoloration and/or deformation.

Additional Precautions

- Use a reasonable amount of care when using the unit's buttons, sliders, or other controls; and when using its jacks and connectors. Rough handling can lead to malfunctions.
- When connecting/disconnecting all cables, grasp the connector itself—never pull on the cable. This way you will avoid causing shorts, or damage to the cable's internal elements.
- A small amount of heat will radiate from the unit during normal operation.
- To avoid disturbing your neighbors, try to keep the unit's volume at reasonable levels.
- When you need to transport the unit, package it in the box (including padding) that it came in, if possible. Otherwise, you will need to use equivalent packaging materials.

SPECIFICATIONS

** In the interest of product development, the specifications and/or appearance of this unit are subject to change without prior notice.*

GUITAR AMPLIFIER: Blues Cube BC-30, BC-30/210

- **Rated Power Output** 30 W/8 Ω (BC-30, BC-30/210)
- **Nominal Input Level** NORMAL Channel -27 dBm/680 k Ω
LEAD Channel -55 dBm/680 k Ω
- **Speaker** V12-50 (30 cm/12 inches) X 1 (BC-30)
V10-45 (25 cm/10 inches) X 2 (BC-30/210)
- **Controls** CHANNEL SELECT switch
NORMAL Channel
BRIGHT switch
VOLUME
LEAD Channel
PRE VOLUME
POST VOLUME
MASTER Controls
Equalizer
BASS
MIDDLE
TREBLE
PRESENCE
MASTER LEVEL
POWER switch

- **Indicators** NORMAL Channel
LEAD Channel
- **Connectors** INPUT jack
FOOT SWITCH jack
CHANNEL SELECT
- **Power Supply** AC 117 V, 230 V or 240 V
- **Power Consumption** 30 W/117 V
30 W/230 V
30 W/240 V
- **Dimensions** 482 (W)x 261 (D)x 455 (H) mm (BC-30)
19 (W)x10-1/4 (D)x22-1/16 (H)" (BC-30)
555 (W)x 280 (D)x 557 (H) mm (BC-30/210)
21-7/8(W)x11 (D)x22-15/16 (H)" (BC-30/210)
- **Weight** 14.5 kg/32 lbs (BC-30)
19.6 kg/43 lbs 4 oz (BC-30/210)
- **Accessory** Owner's Manual
- **Options** Foot Switches; BOSS FS-5L

0 dBm=0.775 V rms

Information

When you need repair service, call your local Roland Service Station or the authorized Roland distributor in your country as shown below.

ARGENTINA

Instrumentos Musicales S.A.
Florida 638
(1005) Buenos Aires
ARGENTINA
TEL: (01) 394 4029

BRAZIL

Roland Brasil Ltda.
R. Coronel Octaviano da Silveira
203 05522-010
Sao Paulo BRAZIL
TEL: (011) 843 9377

CANADA

Roland Canada Music Ltd. (Head Office)
5480 Parkwood Way Richmond
B. C., V6V 2M4 CANADA
TEL: (0604) 270 6626

Roland Canada Music Ltd. (Toronto Office)
Unit 2, 109 Woodbine Downs
Blvd, Etobicoke, ON
M9W 6Y1 CANADA
TEL: (0416) 213 9707

MEXICO

Casa Veerkamp, s.a. de c.v.
Mesones No. 21 Col. Centro
Mexico D.F. 06080 MEXICO
TEL: (905) 709 3716

La Casa Wagner de Guadalajara s.a. de c.v.
Av. Corona No. 202 S.J.
Guadalajara, Jalisco Mexico
C.P.44100 MEXICO
TEL: (033) 613 1414

PANAMA

Productos Superiores, S.A.
Apartado 655 - Panama 1
REP. DE PANAMA
TEL: 26 3322

U. S. A.

Roland Corporation U.S.
7200 Dominion Circle
Los Angeles, CA. 90040-3696,
U. S. A.
TEL: (0213) 685 5141

VENEZUELA

Musicland Digital C.A.
Av. Francisco de Miranda,
Centro Parque de Cristal, Nivel
C2 Local 20 Caracas
VENEZUELA
TEL: (02) 285 9218

AUSTRALIA

Roland Corporation Australia Pty. Ltd.
38 Campbell Avenue
Dee Why West, NSW 2099
AUSTRALIA
TEL: (02) 982 8266

NEW ZEALAND

Roland Corporation (NZ) Ltd.
97 Mt. Eden Road, Mt. Eden,
Auckland 3, NEW ZEALAND
TEL: (09) 3098 715

HONG KONG

Tom Lee Music Co., Ltd. Service Division
22-32 Pun Shan Street, Tsuen
Wan, New Territories, HONG
KONG
TEL: 2415 0911

INDONESIA

PT CITRARAMA BELANTIKA
Kompleks Perkantoran Duta
Merlin Blok E No.6—7
Jl. Gajah Mada No.3—5, Jakarta
10130,
INDONESIA
TEL: (021) 3850073

KOREA

Cosmos Corporation Service Station
261 2nd Floor Nak-Won Arcade
Jong-Ro ku, Seoul, KOREA
TEL: (02) 742 8844

MALAYSIA

Bentley Music SDN BHD
No.142, Jalan Bukit Bintang 55100
Kuala Lumpur, MALAYSIA
TEL: (03) 2443333

PHILIPPINES

G.A. Yupangco & Co. Inc.
339 Gil J. Puyat Avenue
Makati, Metro Manila 1200,
PHILIPPINES
TEL: (02) 899 9801

SINGAPORE

Swee Lee Company
BLOCK 231,
Bain Street #03-23
Bras Basah Complex,
SINGAPORE 0718
TEL: 3367886

CRISTOFORI MUSIC PTE LTD
335, Joo Chiat Road SINGAPORE
1542
TEL: 3450435

TAIWAN

Siruba Enterprise (Taiwan) Co., LTD.
Room. 5, 9fl. No. 112 Chung Shan
N.Road Sec.2 Taipei, TAIWAN,
R.O.C.
TEL: (02) 561 3339

THAILAND

Theera Music Co., Ltd.
330 Verng Nakorn Kasem, Soi 2,
Bangkok 10100, THAILAND
TEL: (02) 2248821

BAHRAIN

Moon Stores
Bad Al Bahrain Road,
P.O.Box 20077
State of BAHRAIN
TEL: 211 005

IRAN

TARADIS
Mir Emad Ave. No. 15, 10th street
P. O. Box 15875/4171 Teheran,
IRAN
TEL: (021) 875 6524

ISRAEL

Hallit P. Greenspoon & Sons Ltd.
8 Retzif Ha'aliya Hashnya St.
Tel-Aviv-Yafo ISRAEL
TEL: (03) 6823666

JORDAN

AMMAN Trading Agency
Prince Mohammed St. P. O. Box
825 Amman 11118 JORDAN
TEL: (06) 641200

KUWAIT

Easa Husain Al-Yousifi
P.O. Box 126 Safat 13002
KUWAIT
TEL: 5719499

LEBANON

A. Chahine & Fils
P.O. Box 16-5857 Gergi Zeidan St.
Chahine Building, Achrafieh
Beirut, LEBANON
TEL: (01) 335799

OMAN

OHI Electronics & Trading Co. LLC
P. O. Box 889 Muscat
Sultanate of OMAN
TEL: 706 010

QATAR

Badie Studio & Stores
P.O.Box 62,
DOHA QATAR
TEL: 423554

SAUDI ARABIA

SAF Music Center
Al-Khobar 31952, P. O. Box 1366
SAUDI ARABIA
TEL: (03) 898 3311

Abdul Latif S. Al-Ghamdi Trading Establishment
Al-Tamini Commercial And
Residential Center Al-Khobar
Dharan Highway W/Hamood St.
P. O. Box 3631 Al-Khobar
31952 SAUDI ARABIA
TEL: (03) 898 2332

SYRIA

Technical Light & Sound Center
Khaled Ebn Al Walid St.
P.O.Box 13520
Damascus - SYRIA
TEL: (011) 2235 384

TURKEY

Barkat Sanayi ve Ticaret
Siraselvler Cad. Guney Ishani No.
86/6 Taksim, Istanbul TURKEY
TEL: (0212) 2499324

U.A.E

Zak Electronics & Musical Instruments Co.
Zabeel Road, Al Sherooq Bldg.,
No. 14, Grand Floor DUBAI
U.A.E.
P.O. Box 8050 DUBAI, U.A.E
TEL: (04) 360715

EGYPT

Al Fanny Trading Office
9, Ebn Hagar Ai Askalany Street,
Ard El Golf, Heliopolis, Cairo,
11341 EGYPT
TEL: (02) 4171828
(02) 4185531

MAURITIUS

Philanne Music Center
4th, Floor Noll, Happy World
House Sir William Newton Street
Port Luis MAURITIUS
TEL: 242 2986

REUNION

FO - YAM Marcel
25 Rue Jules Merman ZL
Chaudron - BP79 97491
Ste Clotilde REUNION
TEL: 28 29 16

SOUTH AFRICA

That Other Music Shop (PTY) Ltd.
11 Melle Street (Cnr Melle and
Juta Street)
Braamfontein 2001
Republic of SOUTH AFRICA
TEL: (011) 403 4105

Paul Bothner (PTY) Ltd.
17 Werdmuller Centre Claremont
7700
Republic of SOUTH AFRICA
TEL: (021) 64 4030

AUSTRIA

E. Dematte & Co.
Neu-Rum Siemens-Strasse 4
A-6040 Innsbruck P.O.Box 83
AUSTRIA
TEL: (0512) 26 44 260

BELGIUM/HOLLAND/LUXEMBOURG

Roland Benelux N. V.
Houtstraat 1 B-2260 Oevel-
Westerlo BELGIUM
TEL: (014) 575811

CYPRUS

Radex Sound Equipment Ltd.
17 Diagorou St., P.O.Box 2046,
Nicosia CYPRUS
TEL: (02) 453 426
(02) 466 423

DENMARK

Roland Scandinavia A/S
Langebrogade 6 Post Box 1937
DK-1023 Copenhagen K.
DENMARK
TEL: 32 95 3111

FRANCE

Guillard Musiques Roland
ZAC de Rosarge Les Echets 01700
MIRIBEL FRANCE
TEL: 7226 5060

Guillard Musiques Roland (Paris Office)
1923 rue Léon Geoffroy 94400
VITRY-SUR-SEINE FRANCE
TEL: (1) 4680 86 62

FINLAND

Roland Scandinavia As, Filial Finland
Lauttasaarentie 54 B
Fin-00201 Helsinki, FINLAND
P. O. Box No. 109
TEL: (0) 682 4020

GERMANY

Roland Elektronische Musikinstrumente
Handels-gesellschaft mbH.
Oststrasse 96, 22844 Norderstedt,
GERMANY
TEL: (040) 52 60090

GREECE

V. Dimitriadis & Co. Ltd.
20, Alexandras St. & Bouboulinas
54 St. 106 82 Athens, GREECE
TEL: (01) 8232415

HUNGARY

Intermusica Ltd.
Warehouse Area 'DEPO' Pf.83
H-2046 Torokbalint, HUNGARY
TEL: (01) 1868905

IRELAND

The Dublin Service Centre Audio Maintenance Limited
11 Brunswick Place Dublin 2
Republic of IRELAND
TEL: (01) 677322

ITALY

Roland Italy S. p. A.
Viale delle Industrie, 8
20020 Arese Milano, ITALY
TEL: (02) 93581311

NORWAY

Roland Scandinavia Avd. Kontor Norge
Lilleakerveien 2 Postboks 95
Lilleaker N-0216 Oslo
NORWAY
TEL: 273 0074

POLAND

P. P. H. Brzostowicz Marian
61-502 Poznan, ul, Filarecka 11,
TEL: (061) 332 665
03-624 Warszawa, ul, Blokowa32,
TEL: (02) 679 44 19

PORTUGAL

Caius - Tecnologias Audio e Musica, Lda.
Rue de Catarina 131
4000 Porto, PORTUGAL
TEL: (02) 38 4456

RUSSIA

PETROSHOP
Vershavskoe, Shosse, 27-1
Moscow, RUSSIA
TEL: 095 901 0892

INVASK Limited

Lenina Str. 13-342
Krasnogorsk 143400
Moscow Region, RUSSIA
TEL: 095 564 61 44

SPAIN

Roland Electronics de España, S. A.
Calle Bolivia 239 08020 Barcelona,
SPAIN
TEL: (93) 308 1000

SWEDEN

Roland Scandinavia A/S
Danvik Center 28 A, 2 tr.
S-131 30 Nacka SWEDEN
TEL: (08) 702 0020

SWITZERLAND

Roland (Switzerland) AG Musitronic AG
Gerberstrasse 5, CH-4410 Liestal,
SWITZERLAND
TEL: (061) 921 1615

UNITED KINGDOM

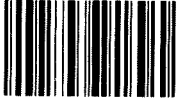
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